

visitor location register user identifications of the users are transmitted each by means of one of the mobile devices and are stored there, and which communications system comprises at least one home location register, in which the user identifications are each linked to a call number and to further user data, which user data comprise location information for a respective user, the location information being transmitted from a visitor location register to the home location register of a user, wherein

it comprises connecting modules, by means of which connecting modules one of the mobile devices in each case is connectible by a user to a lower voltage grid, the connecting modules each comprising a connecting plug for connection to the low voltage grid, by means of which connecting plugs the connecting modules are each connectible to the low voltage grid via outlets of the low voltage grid, and the connecting modules comprising an interface module for connection to the respective mobile device, and

the connecting modules each comprise a suitable power line communications module by means of which the respective mobile device is able to communicate via the low voltage grid with other units which are connected to the low voltage grid via a power line communications module.

2. (Amended) The communications system according to claim 1, wherein it comprises at least one visitor location register which is connected to at least one low voltage grid via the power line communications module, and wherein user identifications are transmittable to this power supply network visitor location register via the low voltage grid by respective mobile devices.

3. (Amended) The communications system according to claim 2, wherein the power supply network visitor location register comprises a table in which address data relating to connecting modules are linked to associated user identifications and are stored.

4. (Amended) The communications system according to claim 3, wherein the power supply network visitor location register transmits to the home location register of a user a roaming number relating to the mobile device of this user, and wherein the roaming numbers are additionally linked in the table with associated user identifications and are stored.

5. (Amended) The communications system according to claim 4, wherein at least certain of the roaming numbers comprise address data relating to a connecting module.

6. (Amended) The communications system according to claim 2, wherein at least certain pieces of the location information comprise address data relating to the power supply network visitor location register.

7. (Amended) The communications system according to claim 2, wherein the communications system comprises a connecting network via which the power supply network visitor location register is able to communicate with at least one home location register and/or at least one mobile switching center.

8. (Amended) The communications system according to claim 7, wherein the connecting network comprises a SS7 signalling system, or is the Internet or an intranet.

9. (Amended) The communications system according to claim 7, wherein the power supply network visitor location register is set up in such a way that it is able to communicate, by means of MAP messages, with other network units connected to the connecting network.

10. (Amended) The communications system according to claim 7, wherein the power

supply network visitor location register comprises a gateway module, which gateway module is able to pass on calls from terminals to respective mobile devices, which calls have been passed on via the connecting network to the power supply network visitor location register, and which gateway module is able to pass on calls from respective mobile devices via the connecting network to a respective network unit, in particular a second power supply network visitor location register, for further transmission to a called terminal.

11. (Amended) The communications system according to claim 2, wherein the power supply network visitor location register comprises a gateway module, which gateway module is able to pass on calls from terminals to respective mobile devices, which calls have been received from a mobile switching center and have been passed on to the power supply network visitor location register, and which gateway module is able to pass on to a respective mobile switching center calls from respective mobile devices for further transmission to a called terminal.

12. (Amended) The communications system according to claim 2, wherein the power supply network visitor location register comprises a billing module which is able to record and bill for services that have been carried out for a respective mobile device.

13. (Amended) The communications system according to claim 12, wherein the billing module is able to bill recorded services to a respective mobile device directly via the low voltage grid.

14. (Amended) The communications system according to claim 1, wherein the interface module comprises an interface with contacts, a contactless infrared interface, a contactless inductive interface and/or a contactless high frequency radio interface.

15. (Amended) The communications system according to claim 1, wherein the connecting modules comprise charging modules by means of which energy storage devices for operation of the mobile devices are chargeable on the low voltage grid.

16. (Amended) A communications method in which user identifications of users of a multiplicity of mobile devices are each stored in an identification module, which identification modules are connected to the mobile devices, in which communications method the user identifications of the users are each transmitted by means of one of the mobile device to a visitor location register and are stored there, and in which communications method the user identifications are each linked to a call number and to further user data and are stored in a home location register, the user data comprising location information for a respective user, and the location information being transmitted from a visitor location register to the home location register of a user, wherein

at least certain of the mobile devices are connected by the users to a low voltage grid in each case by means of a connecting module, the respective connecting module being connected to the low voltage network in each case by means of a connecting plug of the respective connecting module via outlets of the low voltage network, and the respective connecting module being connected to the respective mobile device by means of an interface module of the respective connecting module, and

the respective mobile device, by means of a suitable power line communications module of the respective connecting module communicates, via the low voltage network, with other units, which are connected to the low voltage grid via a power line communications module.

17. (Amended) The communications method according to claim 16, wherein at least one visitor location register is connected to at least one low voltage grid via a power line communications module, and the user identifications of respective mobile devices are transmitted to this power supply network visitor location register via the low voltage grid.

18. (Amended) The communications method according to claim 17, wherein address data relating to connecting modules are linked with associated user identifications and are stored in a table of the power supply network visitor location register.

19. (Amended) The communications method according to claim 18, wherein the power supply network visitor location register transmits to the home location register of a user a roaming number relating to the mobile device of this user, and wherein roaming numbers are additionally linked in the table with associated user identifications and are stored.

20. (Amended) The communications method according to claim 19, wherein at least certain of the roaming numbers comprise address data relating to a connecting module.

21. (Amended) The communications method according to claim 17, wherein at least certain pieces of the location information comprise address data relating to a power supply network visitor location register.

22. (Amended) The communications method according to claim 17, wherein the power supply network visitor location register communicates, via a connecting network, with at least one home location register and/or at least one mobile switching center.

23. (Amended) The communications method according to claim 22, wherein the connecting network comprises a SS7 signalling system or is the Internet or an intranet.

24. (Amended) The communications method according to claim 22, wherein the power supply network visitor location register communicates by means of MAP messages with other network units connected to the connecting network.

25. (Amended) The communications method according to claim 22, wherein the power supply network visitor location register passes on calls from terminals, by means of a gateway module to respective at least certain mobile devices, which calls have been passed on via the connecting network to the power supply network visitor location register, and wherein the power supply network visitor location register passes on, by means of this gateway module, calls from the at least certain mobile devices via the connecting network to a respective network unit, in particular a second power supply network visitor location register, for further transmission to a called terminal.

26. (Amended) The communications method according to claim 17, wherein the power supply network visitor location register passes on, to respective at least certain mobile devices, by means of a gateway module calls, which have been received by a mobile switching center from calling terminals and have been passed on to the power supply network visitor location register, or respectively passes on to a respective mobile switching center, by means of this gateway module, calls from at least certain mobile devices for further transmission to a called terminal.

27. (Amended) The communications method according to claim 17, wherein the power supply network visitor location register records and bills for services, which have been carried out for a respective at least certain mobile device, by means of a billing module.

28. (Amended) The communications method according to claim 16, wherein the

billing module bills recorded services to a respective at least certain mobile device directly via the low voltage grid.

29. (Amended) The communications method according to claim 16, wherein the interface module comprises an interface with contacts, a contactless infrared interface, a contactless inductive interface and/or a contactless high frequency radio interface.

30. (Amended) The communications method according to claim 16, wherein, by means of charging modules, the connecting modules charge on the low voltage grid energy storage devices for operation of the mobile devices.

31. (Amended) A connecting module for a communications system according to claim 1,

which connecting module is set up in such a way that users of mobile devices are able to connect at least certain of the mobile devices to the low voltage grid in each case by means of the connecting module, the connecting module comprising a connecting plug for connection to the low voltage grid, by means of which connecting plug the connecting module is connectible to the low voltage grid via outlets of the low voltage grid, and the connecting module comprising an interface module for connection with a respective mobile device, and

which connecting module comprises a suitable power line communications module, by means of which the respective mobile device is able to communicate via the low voltage grid with other units which are connected to the low voltage grid via a power line communications module.